

10/533743
Rec'd PCTO 04 MAY 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060575 A1

(51) International Patent Classification⁷: B05B 7/24

(21) International Application Number: PCT/US2003/038072

(22) International Filing Date: 2 December 2003 (02.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0229399.1 18 December 2002 (18.12.2002) GB

(71) Applicant (for all designated States except US): 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): JOSEPH, Stephen C.,

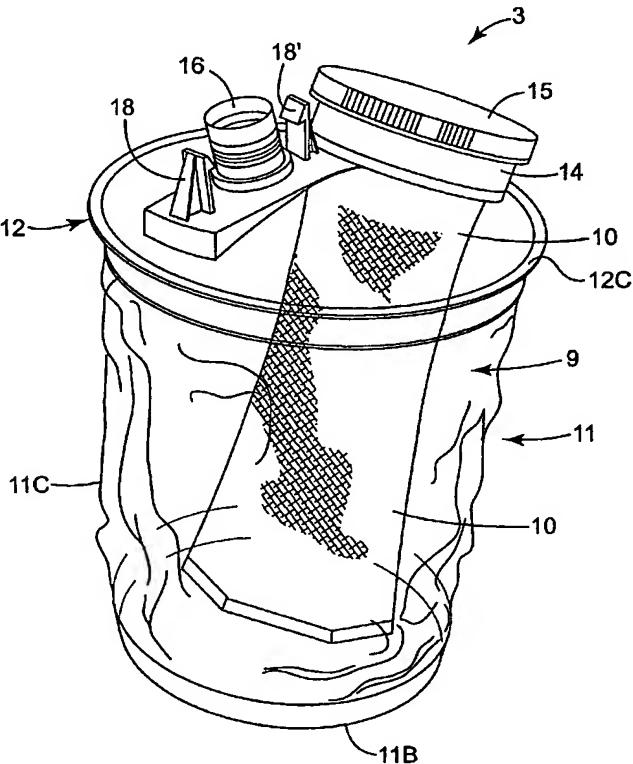
(74) Agents: LITTLE, Douglas, B. et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

{Continued on next page}

(54) Title: DROP-IN FILTER FOR SPRAY GUN RESERVOIR



(57) Abstract: A liquid supply assembly for use with a spray gun (Figure 1) comprises a reservoir 9 provided with a drop-in filter 10 for removing solid particles from liquid added to the reservoir 9. The reservoir 9 has a lid 12 with an outlet opening 12E connectable via a spout 16 to the spray gun and a separate inlet opening 12D in which a support collar 27 of the filter 10 is located. The filter 10 comprises a tubular mesh body 10A having an open end and a closed end. The open end is connected to the support collar 27 and the mesh body 10A extends away from the inlet opening 12D within the reservoir 9. The mesh body 10A is sized to pass through the filler opening 12D and has a high flow capacity to permit rapid filling of the reservoir 9. The filter 10 may be left in place when the reservoir 9 is connected to the spray gun and the reservoir 9 may be discarded together with the filter 10 after use.

WO 2004/060575 A1